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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/586,719	07/20/2006	Yoshimichi Hino	06397/HG	8763
1933 7590 08/19/2008 FRISHAUF, HOLTZ, GOODMAN & CHICK, PC			EXAMINER	
220 Fifth Avenue 16TH Floor NEW YORK, NY 10001-7708			TOLAN, EDWARD THOMAS	
			ART UNIT	PAPER NUMBER
			3725	
			MAIL DATE	DELIVERY MODE
			08/19/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Office Action Summary

Application No.	Applicant(s)
10/586,719	HINO ET AL.
Examiner	Art Unit
EDWARD TOLAN	3725

earned patent term adjustment.	See 37 CFR 1.704(b).
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The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply	
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MALING DATE OF THIS COMMUNICATION.  Extensions of time may be available under the provisions of 37 CFR 1.38(a). In no event, however, may a rapy be timely filed.  If NO period for reply is specified above, the maximum statistory period will apply and will expire SIX (b) MONTHS from the maining date of this communication. Failure to reply within the sate or extended period for reply will by statistic, cause the application to become ARMONED (38 U.S.C, § 133). Any reply received by the Office later than three months after the maining date of this communication, even if timely filed, may reduce any earned pattern term adjustment. See 37 CFR 1.79(b).	
Status	
Responsive to communication(s) filed on	
2a) ☐ This action is FINAL. 2b) ☑ This action is non-final.	
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is	
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.	
Disposition of Claims	
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.	
4a) Of the above claim(s) is/are withdrawn from consideration.	
5) Claim(s) is/are allowed.	
6)⊠ Claim(s) <u>1-16</u> is/are rejected.	
7) Claim(s) is/are objected to.	
8) Claim(s) are subject to restriction and/or election requirement.	
Application Papers	
9) The specification is objected to by the Examiner.	
10)⊠ The drawing(s) filed on 20 July 2006 is/are: a)⊠ accepted or b) objected to by the Examiner.	
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d	).
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119	
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:	
<ol> <li>Certified copies of the priority documents have been received.</li> </ol>	
<ol><li>Certified copies of the priority documents have been received in Application No</li></ol>	
3. Copies of the certified copies of the priority documents have been received in this National Stage	
application from the International Bureau (PCT Rule 17.2(a)).	
* See the attached detailed Office action for a list of the certified copies not received.	
Attachment(s)	

- 1) Notice of References Cited (PTO-892)
  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
  3) Notice of Draftsperson's Patent Drawing Review (PTO-948)
  4) Information Disclosure Statement(s) (PTO/SE/DE)
  - - Paper No(s)/Mail Date 11-15-2007, 9-25-2006.

- Interview Summary (PTO-413)
   Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) Notice of Informal Patent Application
- 6) Other:

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## DETAILED ACTION

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Suzuki (JP 5-69023). Suzuki discloses a heat treatment apparatus for steel plate (3) comprising a plurality of transfer rolls (6) transferring the plate in a horizontal direction and heat induction units (8) located along the transferring direction. At an inlet and outlet of the heat induction units (8) there are pressing rollers (9) as shown in Fig. 3 above the transferring rolls (6) and facing the transfer rolls. The pressing rollers are drive rollers that press the plate (3) and allow the plate to smoothly transfer into the heating units. Fig. 3 shows that the diameter of roller (9) is more than half of the opening (11) in the induction heating unit.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki (JP 5-69023) in view of Kim et al. (7.028.522). Suzuki does not disclose that Application/Control Number: 10/586,719

order to reduce wear on the rollers.

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the pressing or transfer rolls have a higher electrical resistance than the plate. Kim (fig. 8) teaches transfer rolls (120) and pressing rollers (160) that are connected by a closed circuit and that the pressing rolls (160) are made of a material having a high heat-resisting property. It would have been obvious to one skilled in the art at the time of invention to provide a high resisting roll as taught by Kim in the invention of Suzuki in

Claims 13-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Suzuki (JP 5-69023) in view of Sekine et al. (EP 1452247). Suzuki does not disclose leveling and cooling. Sekine teaches a hot rolling mill (1), a cooling unit (2), a heating unit (4) and levelers (3A,3B). It would have been obvious to one skilled in the art at the time of invention to provide Suzuki with cooling and leveling in order to maintain temperature and correct flatness of the plate during rolling.

## Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication should be directed to Ed Tolan whose telephone number is 571-272-4525. FAX communications should be sent to 571-273-8300.

/Edward Tolan/

Primary Examiner, Art Unit 3725